Name:_____ HW116_Triangles+Area&Perimeter

Mr. Tiénou-Gustafson & Mr. Bielmeier

Geometry, Period_____

Due Date: Wed, 11 Mar 2015

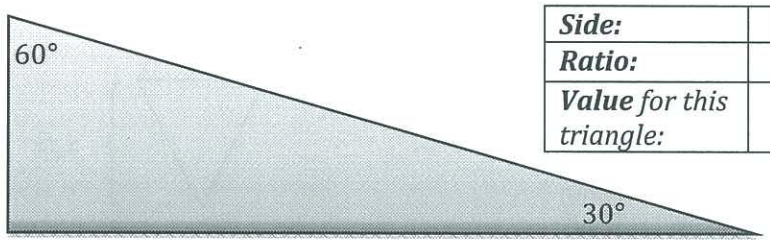
Geometry Homework

Check notes from Monday!

Right Triangle Method:	**What's the goal?** (What can you find with this?)	**What is required?** (What givens do you need to use this method?)	**Analyze it.** (What is the method? Demonstrate.)
Pythagorean Theorem			
Pythagorean triples *(Give at least 2 – bonus if you give first 4)*			
Special right triangle ratios			
Trig ratios			
Inverse trig			

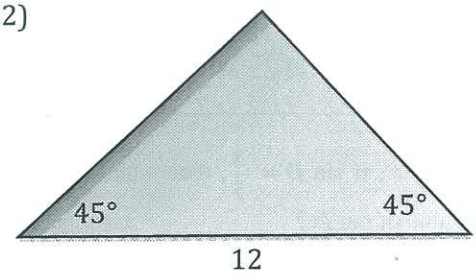
Fill in the table with the appropriate values for each of the given triangles.

1)



Side:	short leg	hypotenuse	long leg
Ratio:			
***Value** for this triangle:*			

2)

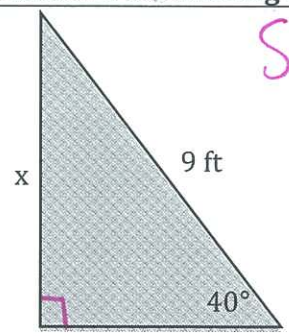


Side:	leg 1	leg 2	hypotenuse
Ratio:			
***Value** for this triangle:*			

Find the value of the missing side or angle to the nearest tenth:

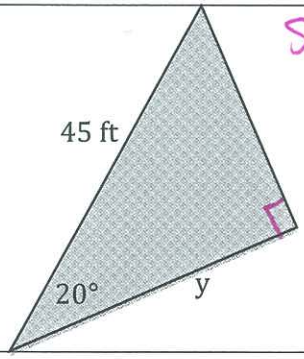
3)

SohCahToa



4)

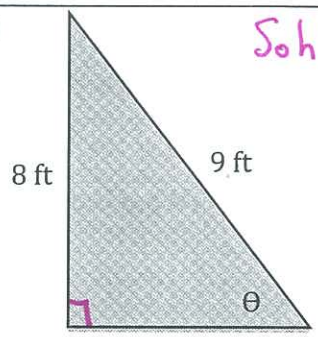
SohCahToa



Define Your Pride.

5)

SohCahToa



6)

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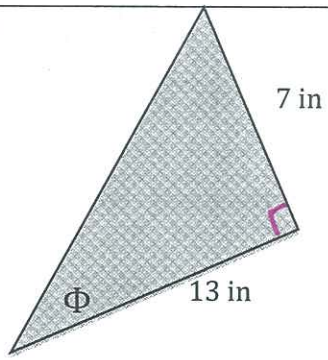
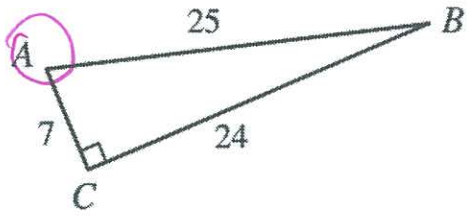


7)

In the triangle shown, find tan A.



tan A=

A. $\frac{7}{25}$

B. $\frac{7}{24}$

C. $\frac{24}{25}$

D. $\frac{24}{7}$

E. $\frac{25}{7}$

8)

What is the area, in square centimeters, of the kite shown below formed of two congruent equilateral triangles with base of lengths of 6 centimeters and altitudes of $3\sqrt{3}$ centimeters?

(Note: The area, A, of a kite can be determined using the formula $A = \frac{d_1 d_2}{2}$, where d_1 and d_2 represent the lengths of the diagonals of the kite.)

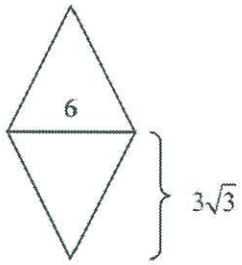
A. 18

B. $18\sqrt{3}$

C. $27\sqrt{3}$

D. $36\sqrt{3}$

E. $54\sqrt{3}$



9)

What is the area, in square yards, of a right triangle with sides of length 5 yards, 12 yards, and 13 yards?

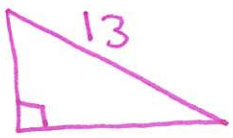
A. 15

B. 30

C. 60

D. 65

E. 78



Area of triangle =

10)

In right triangle ΔDEF, if $\sin D = \frac{3}{5}$, then which of the following is the value of $\tan D$?

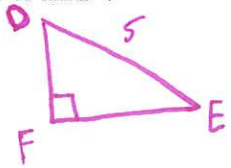
F. $\frac{3}{5}$

G. $\frac{3}{4}$

H. $\frac{4}{5}$

J. $\frac{5}{4}$

K. $\frac{4}{3}$



sinD=